



THE RARA RAG

Newsletter of The Rochester Amateur Radio Association, Inc.
Founded in 1931

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Show & Tell (and Then Some)

By Gary Skuse, KA1NJL
Vice President, RaRa

Remember the excitement when you were in grade school and the teacher announced that tomorrow you were having show and tell? It was an opportunity to share your newest and proudest treasures with your friends and it was always fun. It was also a chance to check out the latest loot that your friends had so you could start thinking about your next acquisition. At our July RARA meeting we are going to have a show and tell of sorts.



Everyone is invited to bring an amateur radio project or setup to share with the others. This is an opportunity to show off your mobile rigs and to bring with you any portable stations you are proud of. Do you have multiple radios in your vehicle? Let us see them. Over the past several years I have heard many of us talk about creating grab and go rigs for use in emergencies. Do you have one? Bring it. Is anyone running APRS and VHF/UHF mobile simultaneously? Show it off. Are you running anything digital in your

vehicle? Perhaps a tablet or laptop interfaced to your radios? Maybe a war driving* rig? Let's see it. Are you playing with SDR using a laptop and a USB dongle? Bring them.

We will use the parking lot for mobile rigs and we will have tables set up indoors for everything else. This should be fun and I encourage everyone to participate. Either bring something to show off or come and check out the neat stuff other hams are doing.

At the July meeting we will also be prepared to program the new Baofeng UV-5R radios purchased by recent alumni of our licensing classes. If you have one, bring it along so we can program it for use with all the local repeaters.

This month's meeting is sure to have something for everyone. Please join us on Friday July 5th at 7:00pm at the usual location, the Henrietta Fire Company #1, located at 3129 East Henrietta Road near Lehigh Station Road.

*The act of driving while searching for WiFi access points.

This month in the RaRa RAG...

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RARA Meeting July 5th, 7PM

Henrietta Fire Co. #1
3129 East Henrietta Rd. (15A)



The Prez Sez

By Bill Marinucci, WB2GHC
President, RaRa

HAM-O-RAMA 2013 is now in the history books! We really lucked out with the weather, our biggest concern. The weather was going to either make or break us... The weatherperson must be a ham! Almost all of the feedback we received after the event was positive, and some good suggestions were made for future hamfests. The attendance was over 1000 people, a bit lower than expectations, but nevertheless a decent turnout. There was plenty of food to be had, and plenty of indoor and outdoor seating was available as well. Everything was conveniently located, and easily accessible. The price of admission was lower than last year, making it very affordable. I was not able to walk around much, but from what I could see, everyone was having a good time.

The most asked question from hamfest attendees was "Where are all of the commercial vendors"? Last year, almost 400 commercial vendors were invited to participate in the 2012 hamfest. Many, many of the attendees last year asked why we didn't invite so and so or so and so. Well, we did! The Field House seemed like a perfect venue to house them... plenty of space for a large number of vendors, as well as an indoor flea market. The fact that it was on a highly recognized technical college should have enticed the 'high tech' vendors as well. Almost all of the high tech folks declined, for a host of reasons. All of the big ham radio suppliers were invited and all turned down our invitation. The reason was simple... Cost. Most had considerable distances to drive, extra manpower requirements in packing, driving, setting up, selling, packing up, driving back, unloading, etc., and strong competition from Internet / 1-800 sales. AES did not come to the biggest hamfest in the U.S this year—Dayton—for all the same reasons. Our potential vendors evaluated a one-day hamfest with a projected number of attendees to be less than 5000, so there was no way that they could come close to break even. Understandable! Some vendors that were there in 2012 shied away this year because it was an outside event and they did not want to take a chance on the weather. Also understandable! However, *all were asked*.

Now it is time for me to express my deepest and sincerest gratitude to all who made the event a wonderful day. I would like to thank the Hamfest Committee who really put their hearts and souls into this event. Next, thank you RIT K2GXT Amateur Radio Club members for all of the hard work you did in setting up, tear-down, staffing the talk-in station, and jumping in to fill positions all that day. Thank you to the volunteers who staffed the parking lot and to the ticket sellers. You were really stretched and worked extra shifts to keep things moving. You folks did an awesome job! Thank you to the indoor staff who handled the financials, and RaRa memberships / information. Certainly, you all did an outstanding job and worked almost the entire hamfest! I would also like to thank the staff members from RIT who worked with us in all the arrangements for use of their facilities.

Most importantly, I want to thank each and every one of *you* who attended. You made the day!

73!

Calendar of Events

July 5 **RaRa General Meeting**
7:00 PM - Henrietta FD #1
3129 E. Henrietta Rd

July 10 **RaRa Board of Directors**
5:30 PM, RIT Engineering
Hall, Room 2110

July 20 **RARA Picnic**
Mendon Ponds Park

VE News

By Ken Hall W2KRH

At the May 21st VE session we had 12 successful candidates 3 Extra, 3 General and 6 Technician.

David	Avery	K2DWA	E
Christopher	Culpepper	AB1TJ	E
Michael	Shaffer	KC2HTL	E
Robert	Carson	K2VEC	G
Sandra	Federico	KA2HQZ	G
William	Phillips	KD2BME	G
Nick	Evevsky	KD2EEM	T
John	Herzog	KD2EEN	T
Daniel	Mercado	KD2EEO	T
Maryanna	Mueller	KD2EEP	T
Kenneth	Pearce	KD2EEQ	T
William	Reemtsen	KD2EER	T

RaRa LOGO Items



Don't feel left out- get your RaRa logo items today!

[\(Click here to shop now!\)](#)

Meeting Prizes

By Jay (KC2TCM) and Sabrina (WD2STK) Hamill

For July's meeting we're going to raffle off a Baofeng UV-5RA handheld transceiver. Most are familiar with this radio, and this one is a slightly updated style with all the functionality of the other UV-5R radios. We're also including a USB programming cable, and we will even pre-program the radio with local repeaters and other useful frequencies. I'll include the latest version of the Chirp programming software, also. There will also be 2nd and 3rd place prizes to choose from.



Silent Keys

Ken Waldvogel
Ex-WA2UKF
April 30th, 2013

James R. Sims, Jr.
W2GDB
May 16th, 2013

George W. Mavis
Ex-WA2UIB
May 23rd, 2013

In Memoriam: Clyde Parker WB2EOC

A Pioneer in Rochester Television

Submitted by Patrice Lockhart KC2PTX

Clyde was born in 1927 in Brant, NY. During the war he served in the U.S. Navy as a radio operator aboard the U.S.S. Massachusetts, which was part of the Pacific fleet in 1943. During his duty he most likely participated in the Solomon Islands campaign, the Philippines Campaign and the Battle of Leyte Gulf. In 1945 the Massachusetts was one of several ships assigned to shell targets on Honshu, the largest of the Japanese Home Islands.

After returning home Clyde worked at radio station KOKX-AM in Keokuk, Iowa. Sometime around 1950 Clyde was hired to work as a transmitter engineer for WHAM-TV Channel 5.

On August 13, 1962 Clyde was hired by George Driscoll and quickly became involved in the construction of a new Rochester TV station. WOKR-TV Channel 13 went on the air August 15, 1962 at 4:00 PM. We can only imagine how excited Clyde was to be a part of this team.

When Al Bollings retired Clyde became an assistant to George Driscoll. In February 1971 WOKR-TV's facility was moved to Henrietta. When George Driscoll retired June 30, 1974 Clyde became Chief Engineer. On Sept. 11th, 1988 he retired from WOKR-TV.

Here are some other memories of Clyde Parker from those who knew and worked with him...



Clyde Parker WB2EOC (SK)

Clyde Parker: Broadcasting Perfection ***Don Alhart, 13WHAM-DT's Anchor:***

If I were to carve a monument for Clyde Parker, I would include the RCA Logo on it. When I think of Clyde, I think of those early days in radio and television broadcasting—the days of tubes and transistors and 16-millimeter film chains and sorting commercial slides in master control.

Clyde is part of an engineering era where perfection was not just a goal—it was expected reality. We did not tolerate “dead air,” and we would research every technical error that occurred to make sure it would not be repeated. There was a pride in the product—a pride in a smooth broadcast day from sign-on to sign-off. My favorite Clyde Parker story is when we were deciding to purchase new microphones to replace the ugly “cigar-like” lavalieres that hung around our necks. I was advocating the new, smaller, Sony lapel mikes. Clyde was skeptical they would produce the same sound quality and insisted we test them out in the studio. I wore both microphones and read copy so the audio engineer could switch between sources and Clyde could make a comparison. The sound on the new lapel mikes was so much better, that Clyde actually hinted that I might be making my voice quality better, just to insure the purchase of the new microphones. When I convinced him I didn't know which mic the engineer was using at any given moment, he finally approved the Sony microphones.

Clyde sought perfection in a quiet, unassuming manner, one that will always be the goal for all in broadcasting.

Clyde Was Just WB2EOC Long Before I Met Him

Patrice Lockhart, KC2PTX, 13WHAM-DT Engineering Operations:

"I attended SUNY Geneseo from 1973-76. While there I worked at WGSU-FM as a student engineer under Geneseo's Chief Engineer Fred Ambrose. Fred and Clyde were good friends and very active together in Amateur Radio. I showed an interest in Amateur Radio so Fred would regularly invite me to his home to listen along. I remember hearing Clyde's call sign and voice long before I met him. In 1977, after I graduated, Fred contacted me and said Clyde would like to offer me a job at Channel 13. Along with Fred's recommendation, I believe he hired me because I had shown interest in Amateur Radio.

Fred would often say "keep the faith" when we would say goodbye. It wasn't until years later that I fully understood what he meant by that. Broadcast engineering was a calling to men like Fred and Clyde. They felt strongly that they were serving the public and worked tirelessly to make sure that they did their best. Amateur Radio was where they went to play and relax after work.

I will always be grateful to Clyde for having faith in me and giving me a chance to work in broadcasting."

Forget the Manual, Clyde's Way Is Better!

Lou Volino, 13WHAM-DT's Chief Engineer:

"WHAM TV still had the original fully operational RCA TT-11/35 from sign-on of the station (1962). It became the backup transmitter in 1986 when a RCA TTG30H was installed. It's due to Clyde's knowledge and meticulous care of the transmitter over the years that we could still use the old RCA as a full power backup.

Several years after Clyde retired he helped me out with rebuilding the visual amplifier (RCA TT-35) after several of the output tubes plate circuits arced over and burned up. Using spare parts from the original TT-25 aural power amplifier, we replaced the bad components, and adjusted the 7 output tube circuits so they would all track together when re-tuning the amplifier.

Once the visual amplifier was fully operational, Clyde proceeded to show me how to tune the rest of the transmitter (TT-11). The tricky part was properly adjusting the exciter for proper aural and visual carrier frequencies. Even replacing one tube in that exciter could really throw it off frequency preventing the transmitter from staying on. This is where Clyde's many years of experience shined. Forget the tuning procedures in the manual; Clyde had other thoughts. He went through each stage and back again from memory. That experience with Clyde gave me knowledge I needed to keep the RCA TT-11/35 fully operational as a backup analog transmitter right through to the DTV transition in June of 2009."

Clyde Parker: Innovator and Mentor

Chuck Hughes, 13WHAM-DT Commercial Production:

"Clyde was like a father to me, always encouraging me to try new engineering approaches for our live on-air programming. For a number of years I worked as a director for WOKR-TV and was directing live morning programming when we first started using portable video tape cameras and live remote trucks.

We would sit together in Clyde's office plotting out the next remote for our morning show. Clyde would support my ideas as we persuaded management to let us try these new tools in the field.

We did our first satellite live telecast from Disney's Epcot Center in 1982 which required multiple hops to achieve. After that we did many more live remote specials. We worked with the Rochester Philharmonic Orchestra to do a remote from CMAC in Canandaigua, an engineering feat that required a microwave hop to get the signal back to Rochester. We broadcast a live Calder Cup Hockey game from Maine using a public TV station's remote truck in an old bread van that we improvised to work for us. Clyde and I researched character generators and video switchers together.

Because of Clyde, WOKR-TV was always the first TV station in town to have a "state-of-art" electronics presentation on the air. I will always remember how he was able to "calm things down" when things got heated up in the control room."

Scanner Shopping at a Hamfest

By Jim Sutton N2OPS jim@otrym.org

Times have changed big time for scanner listeners. Crystal sets gave way to programmable. Some counties moved to digital and/or trunked systems. Some move out of the bands our older scanners covered. And sadly, some have become encrypted or employ a system scanners are not available for.

So what do you need to know when shopping for a scanner? Some scanners no longer have major parts available. Some have hidden damage, and others have such a poor track record they are not even worth consideration.

CANNOT BE REPAIRED

The biggest loss was when Electra Corp. who made the original Bearcat scanner was sold to Uniden. The Primary IC for the sloped front scanners BC-210, 210XL, 210XLT, 210XW, 220, 20/20. 250, 260, 300 and 350 was not continued to be produced by Uniden thus instant obsolescence. Also the original programmable, the 101, also became obsolete. G and G Communications in LeRoy has an excellent list of non-repairable scanners at the following link: <http://www.gcomradio.com/norep.html>

FLAT KEYBOARDS

Avoid any scanners with a flat keyboard. They have a terrible track record. You can almost be certain the keyboard does not work.

ANTENNA IN THE TOP

In some scanners the telescoping goes in thru the top of the case and screws into the printed circuit board. If it is still in the scanner or the broken off bottom part is still in the scanner the radio may have a broken PC board. This renders that scanner DOA. If circumstances permit open it up and carefully view the PC board. Best to move on to look at other scanners.

WHAT IS IT?

Over my 14 years of selling scanners, dealing with trade-ins, and repairs I've seen just about every kind of foreign matter in them you could imagine, and some you couldn't. I remember well one scanner that was covered with something. When I asked the owner what it was he said it was chicken. Asked if it was in the barn he said no the kitchen. Fresh eggs anyone? Food, dust, grime, grease were just a few of the things that sent me on a beeline to the men's room when the customer left. If it's on the scanner it almost certainly is *in* the scanner. Skip it.

DUST TELLS THE STORY

Often the volume-on/off knob will show a coating of dust from either the always on or always off position. Many scanner owners believed they should never turn their scanner off. Interesting!

RUST AFTER DUST

Check the chassis screws and bottom of your unit for rust. Moisture is another killer. Disregard it. Move on to drier scanners.

PLUG IT IN

Whenever possible, plug the scanner in and test it. Does the display light up? Do the squelch and volume sound clear and turn smooth? Not loose? Does every channel light or LED segment work?

MEMORY BATTERIES

Avoid these. Quite often the battery has leaked onto the PC board. In some Bearcat sloped front sets if the battery holder is put in upside down it will short the PC board.

A FAIR SHAKE

If anything rattles inside it's probably loose, and may have shorted the PC board.

CRYSTAL SCANNERS

These are from an age when stuff was built to last. Chances are slim that the scanner has crystals for your county. Some newer systems cannot be heard on a crystal scanner anyway. These include trunking, digital P25, in some cases UHF, and other advances to radio systems. The seller may indicate what he *once* heard on it, not adding the fact that that county moved to a new system.

How to find crystals and understanding crystals and crystal scanners will be covered next time. Til then 73 to thee.

Oh No, More "Hints & Kinks"!

By Bill Hopkins AA2YV

It seems that I'm constantly reading something in an amateur radio publication—in print or online—and say to myself, "Gee, I've done that before, but another way." And sometimes I rant, because I had the same idea and nobody listened. Ever been there before? I bet you have... Well, let's try it on for size. If it fits, we'll buy (*i.e.*, "build") it...

I read in the June *QST* where you can rig up a fancy, shortened fishing pole and hurl a tennis ball into a tree to raise a wire antenna. Wow, my Rochester buddies have built air-powered PVC bazookas to do that. They laughed at me, though, when I showed them my fishing pole with its light weight monofilament line and swivel and hard rubber stopper (hole through it) from a hardware store. I can get a rope up at least 50 feet. You guys can keep lugging around your compressed air and gangly PCV cannon. I'll have my rope up 10 minutes before yours. Or what if the tree is extra leafy, and that *QST* tennis ball, with its wired thing-a-ma-jig around it gets caught IN the tree—and you can bet your bottom dollar it will—on the first try? My rubber stopper? It never gets caught. Bad cast into the sky? No problem. Just unhook the stopper, reel in the line and do it again. Oh, and if you think the neighbors will laugh at you for "fly fishing," just try going next to their property line with a loud, shoulder-fired cannon. Suggestion: shoot at night.

What else? Well, I sent *QST* an article submission about my low tech, wire-hiding ham shack operating table. No interest, even though it explained how to buss and stash cabling behind (see photo), and have the table roll away from the wall for easy maintenance, they didn't bite – too un-electrical. Then, a few months later I see this "table" article with its similar twists. Who'da thunk it?

Want to know how to attach 450 ohm ladder line to a dipole, so the line doesn't twist off after a few months? Use a .093 inch thick (or thicker) clear Lexan polycarbonate sheet, 5 ¼ inches wide by 6 ½ inches long, make a rectangular hole close to the top to let the center insulator easily fit inside, drill small holes down where the ladder line will stretch and secure it with several black plastic ties. AWG 14 gauge wire will secure the insulator on either side to the Lexan. Put several rotations in the ladder line on its way to the shack to reduce wind effects. One like this has stayed up 10 years plus at AA2YV. How long should a ladder line be to avoid radiation from it on the 3.5, 7, 14, 21 and 28-meter ham bands? *The ARRL Antenna Book* (c1974, p. 111) says: 27.5, 39.5, 58, 76, 95.5, 109, or 145 feet long. The most useful lengths are 39.5, 58 and 76 feet.

Finally, cut a plastic gallon or one half gallon milk bottle (should be empty) to place over a balun and help protect it against rain. The sun will do a number on the enclosure in time, but just cut another to size when the day comes.

Anybody have other ideas? Send 'em along.



Rochester Hamfest—One GREAT Time!

By Forest Shick, WA2MZG

I attended college in Fort Wayne, Indiana at the Indiana Institute of Technology. I joined the school's Amateur Radio Club, W9BHR, the Kekiongan Amateur Radio Club. I earned my Technician license in the spring of 1970. During my five years in Ft. Wayne I went to the Dayton Hamfest every year. After moving to Chicago and then back to Webster, I attended three or four hamfests over the years.

This year was different. I decided I would go to our own Rochester Hamfest, Ham-o-Rama 2013. I made the big decision to participate by helping with flea market parking and then selling some of my treasures in the flea market. Both were very enjoyable experiences.

I had a wonderful time! I sold about 150 flea market parking spots and had nice conversations with the people in line. Oh yea, there was one or two that were a bit cranky about waiting in line but they were insignificant compared to the people that were just happy to be at the Hamfest, like me.

A friend, Ken Villone, showed up at the Hamfest. As Bill Marinucci likes to tell everyone, Ken, Bill and I graduated from Holy Cross grammar school together – 50 years ago. Boy Bill sure is old!

As I understand the story, Bill has been hassling Ken to join RARA for years. One of the first things Ken did at the Hamfest was to in fact join RARA.

I did not sell much in the flea market but many people stopped by just to chat. A few friends from my days at RF Communications and also strangers stopped to talk. The funny part is I think I have graduated again. Most of my conversations were with “experienced” hams, and I have joined a new generation of friends! (How cool is that!) The conversations were on all varieties of ham related subjects and more, including rain and growing a new lawn. Attending this year's Hamfest was a great experience – a tradition worth restarting and supporting.

As does happen, occasionally an incident occurs that is a bit disturbing. Three “gentlemen” approached my table and made a comment about the “rice” boards I was selling. When I stated that the boards were all designed and manufactured in Webster, NY, they did not have much to say. I wonder where their radios are made or their car, clothes, etc. Anyway, the Ham-o-Rama was a great experience worthy of another visit next year!

Kekiongan Amateur Radio Club

L to R: Ray A. Stoller, Bill Barr, Randy Harshman, Tim C. Brown (Treasurer), Raymond A. Tippin, David Barta (Secretary), and Forest Shick (President)



Vintage shot of the author's college radio club at Fort Wayne, IN

News from our friends at other area clubs...

Monroe County ARES / RACES News

The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month. Anyone interested, members and non-members, are welcome to attend.

REMINDER: We do not meet during the summer months of July or August.

The next ARES Meeting will be held on: **Thursday, September 26, 2013, at 7:00 PM.** Meetings are held at the **Greater Rochester Chapter of the American Red Cross HQ, 50 Prince Street, Rochester, NY 14607.** (Located behind the Rochester Auditorium Theatre, 885 Main St. E.)

ARES NET: Monroe County ARES/RACES meets on the air every Thursday of the month at 9:00 pm, on the 146.61 MHz (-) 110.9 Hz PL repeater. The only exception to that are nights when we hold our regular meeting, generally on the 4th Thursday of the month.

WEB: www.monroecountyemcomm.org

NBEMS: Want to learn about Narrow Band Emergency Messaging System (NBEMS)? It's the latest and easiest way to "Go Digital!" Bring your laptop computer and 2-M handheld transceiver. We will conduct an NBEMS clinic after every meeting.

More from Monroe County RACES...

On June 12th, Monroe County RACES participated in the Northern Border Illicit Trafficking Interdiction Exercise. We did a similar drill last year, to practice interagency communications and coordination of a multi-jurisdictional/agency illicit contraband interdiction. RACES has the biggest and best acronym of all the county, state, federal and international participants, that included: RCMP, RPD, FBI, DHS, CBP and DEC. MC Sheriff, Coast Guard, NY State Police, Greece PD, MC radio center and the NY Naval Militia were there without cool acronyms (and I probably forgot a few).

The exercise simulates bad guys trying to enter the US by Lake Ontario. This year the bad guys were bringing some stolen radioactive material into the Rochester Harbor. This gave the teams a chance to practice search and detection of the material, and capture of the perpetrators. RACES was activated by the Incident Commander, Greece PD Chief Todd Baxter.

The Incident Command Post was at the mostly empty ferry terminal. Our comm trailer was in the parking lot with several other communication trucks, towers and generators. Net control stayed in the trailer while our liaisons to incident command were with them in the terminal building. Interestingly, the county radio operators tried to dispatch from inside the 'war room' but had trouble hearing their radios over the noise, so they moved in to the county radio truck, MCU-1. Hams that have tried to do net control inside a noisy command post learned this lesson long ago and we're lucky to have our trailer for events like this.

Unlike last year, the weather was warm and sunny, and Ross, KC2LOC, with a great view of the river, erected his slick portable tower and inverted-Vee NVIS antenna. He worked the Albany RACES station at the state emergency management office on HF with his 5-watt FT817, and later happened to make a QSO with W1AW. Ross also had his copper J-pole on the tower for APRS and voice. At the after-action debriefing, when people were complaining that they couldn't print or Wi-Fi easily, when our turn came to report our status and we casually mentioned that we had contacted Albany SEMO and Connecticut by radio, the evaluators were visibly surprised, and hopefully, impressed.

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Editor's Note:

Free press is available for your club! We welcome brief updates and meeting notices from all area ham clubs. Just send your input to editor@rochesterham.org. When preparing your article, please remember to keep it short, and assume that readers know nothing about your club. The article should be focused toward non-members, and not your own current members... that's what your newsletter is for! We hope all area clubs will take advantage of this opportunity to interest new members in joining their ranks.

73, -Kevin



Ralph, KD2BDZ, got to ride on the NY Naval Militia boat while testing APRS on his Yaesu HT, iPhone and iPad! I saw all three on the map at various times. New for us this year was Google latitude users with smartphones, sending their locations to APRS.fi and appearing on the same screen as APRS trackers. We put trackers, including some on loan from RIT's club, on several boats. We had APRS in the command post, and gave location updates to the communication team of Greece PD and Monroe County staff. Unlike last year, the county had no computer map display, relying on paper maps with post-it notes representing boats and ground teams.

Several hams shadowed the search teams made up of various law enforcement agencies while they searched the harbor area. While Ralph and his boat crew (and several other boats including sheriff and border patrol) searched every nook and cranny on the river with their radiation detectors, hams followed the four land search teams and their detectors in each of the quadrants around the O'Rourke Bridge, from Turning Point Park to the mouth of the river.

They even had some decoys entering the harbor to test the detection teams. A radiation patient set off the detectors and was detained while he was interrogated and meter readings were double checked by medical and radiation experts. Brookhaven National Lab supplied the radiation sources and their handlers, some detectors, and provided advice and training.

Helicopters from Coast Guard, State Police and Border Patrol buzzed around during the search. Command Post vehicles from several agencies filled the Ferry terminal parking lot, and armored SWAT trucks were ready to deploy once the bad guys were found. Some big cops with big guns were ready for action at the briefing and later they had a special sub-exercise in a secure building where they could realistically simulate shooting bad guys with special training rounds.

Tim, WB2PAY happened to be in the quadrant where the evil boat was found and boarded by SWAT, with 'come out with your hands up' loudspeaker warnings and bad guys trying to escape. Eventually, the good guys did shoot the bad guys, but also suffered some (simulated) injuries.

RACES participants were: Jim DiTucci N2IXD, Jim Stefano W2COP, Jon Dickason N2JAC, Bill Marinucci WB2GHC, Joe Walker KA8WJH, Tim Brown WB2PAY, Bill Burdick KC2YMQ, J.D. Dermody N2OYG, Ralph Dutcher KD2BDZ, Ross Mazzola KC2LOC, Lee Morelli WB2JOR, Mike Vanas KC2SWW

The 2013 northern border exercise was more fun and more exciting than last year, and another opportunity for us to hone our skills. MC ARES/RACES net is Thursday at 9pm on 146.61.



Monroe County Sheriff SWAT team with their vehicle preparing for the training shootout. The blue magazines contain special training ammunition. (Photo by Joe Walker KA8WJH)

The Amateur's Code

Originally written by Paul M. Segal, W9EEA (1928)

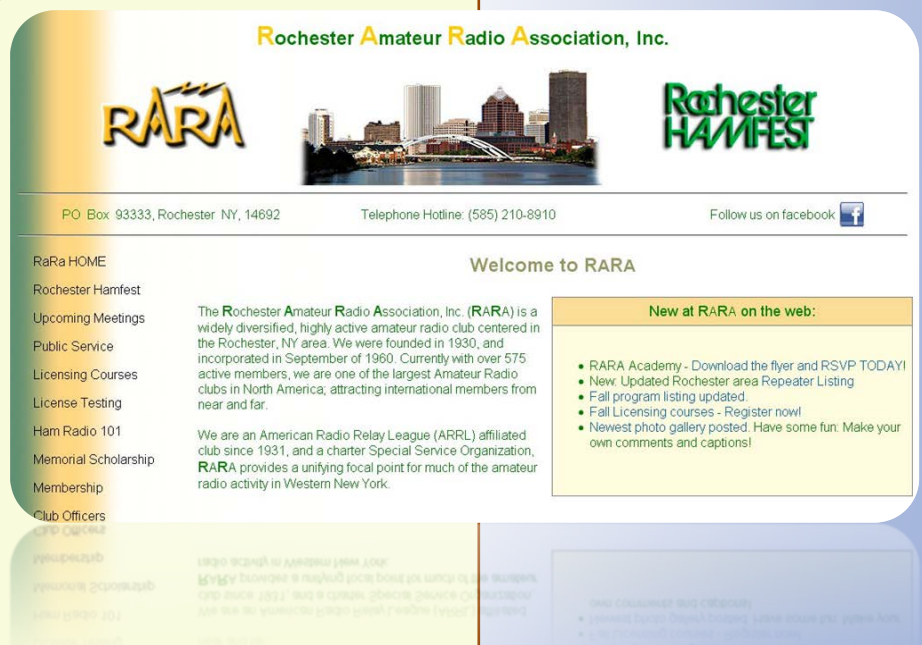
The Radio Amateur is:

CONSIDERATE	Never knowingly operating in such a way as to lessen the pleasure of others.
LOYAL	Offering loyalty, encouragement and support to other amateurs, local clubs and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
PROGRESSIVE	With knowledge abreast of science, a well built and efficient station and operation beyond reproach.
FRIENDLY	With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
BALANCED	Radio is an avocation, never interfering with duties owed to family, job, school or community.
PATRIOTIC	With station and skill always ready for service to country and community

Visit the RARA Website!

Did you know that your club's website (www.rochesterham.org) offers these features and more?

- ✓ Photos of meetings & events (you might be in there!)
- ✓ Info on upcoming meetings/programs
- ✓ Rochester Hamfest information!
- ✓ Online membership & renewal
- ✓ Track and redeem your Reward points
- ✓ Public service info & sign-up
- ✓ VE testing info
- ✓ Back issues of the *Rag* in PDF
- ✓ Officer contact info
- ✓ List of past presidents (how many do you remember?)
- ✓ Online membership directory
- ✓ Order RARA logo products (hats, shirts, and mugs)
- ✓ Useful Internet links
- ✓ Ham Radio 101—tons of tutorial info, plus net & repeater listings



THE RARA MARKET PLACE

Your commercial ad could be here! The RARA Rag can help spread the word on your business at very reasonable rates. Contact us for details at editor@rochesterham.org.

Now you can pull in

**POLICE CALLS—AMATEUR TRANSMISSIONS
AIRCRAFT STATIONS—STEAMSHIP PHONES**

with the same set that brings you
your Favorite Entertainment Programs



MODEL 106 (illustrated above)—Art leather cabinets, available in Deep Green, Spanish Brown, Burgundy Red and Ivory, with gold embossed design. 9 1/4" x 6 1/4" x 4 1/4" **\$24.95**

MODEL 107—Hand-rubbed, burr Walnut, natural wood grain cabinet with genuine wood inlay border. 10 1/4" x 7 1/4" x 5 1/4" **\$26.95**
Prices Slightly higher on the Pacific Coast and for 23 Cycle Models.

FADA adds the mysterious "4th Dimension" to Radio Reception with the Brilliant New

Super FADALETTE

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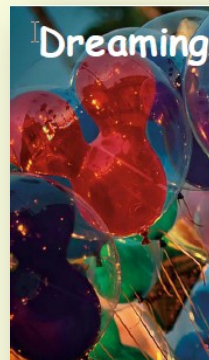
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